

REPLACEMENT SHEET

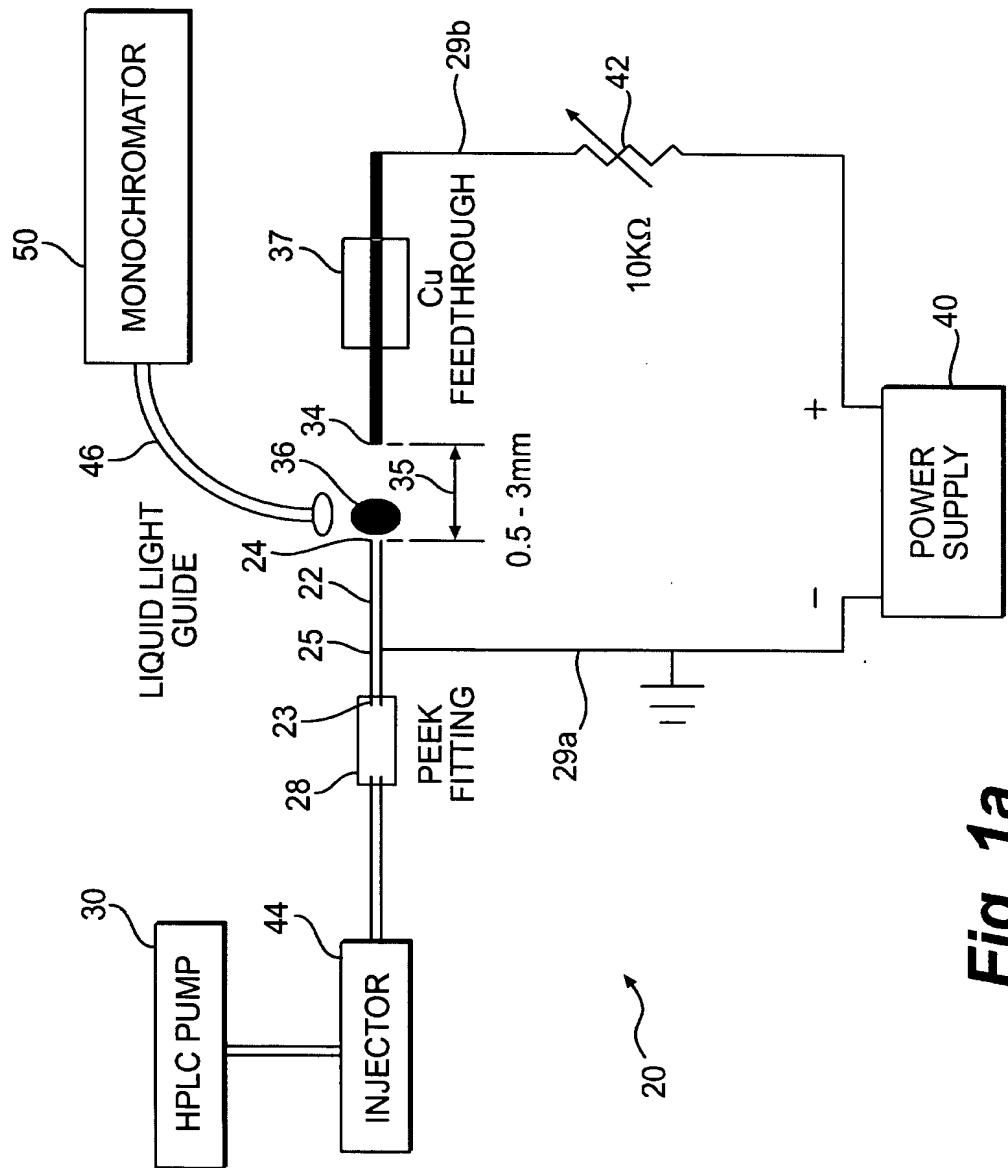


Fig. 1a

REPLACEMENT SHEET

BASIC LS-APGD SOURCE OPERATION

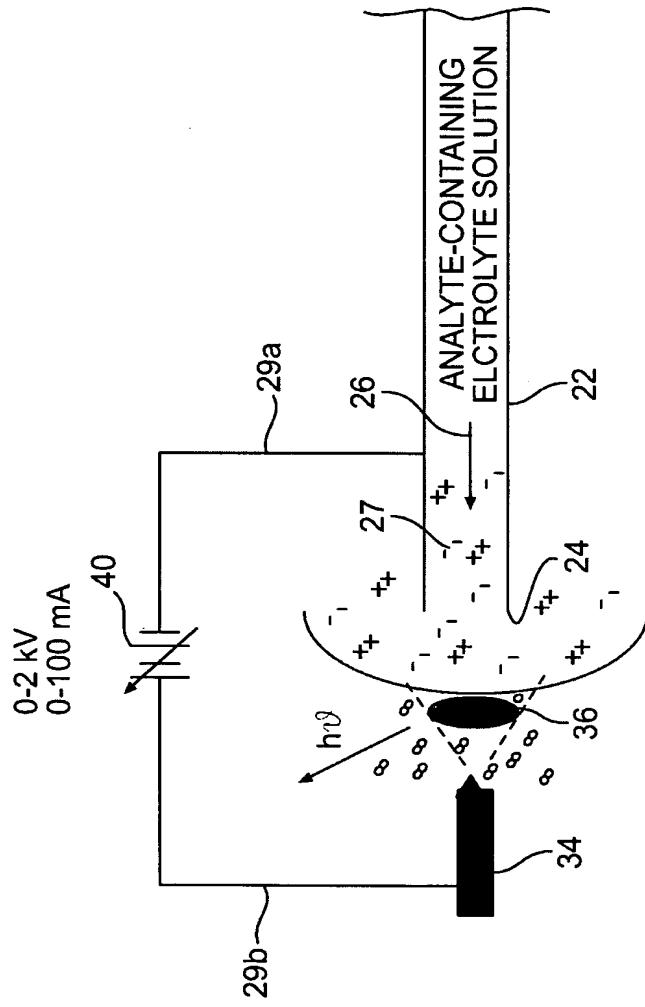


Fig. 1b

REPLACEMENT SHEET

PROPOSED IMPLEMENTATION OF LS-APGD WITH MICROFLUIDIC DEVICES

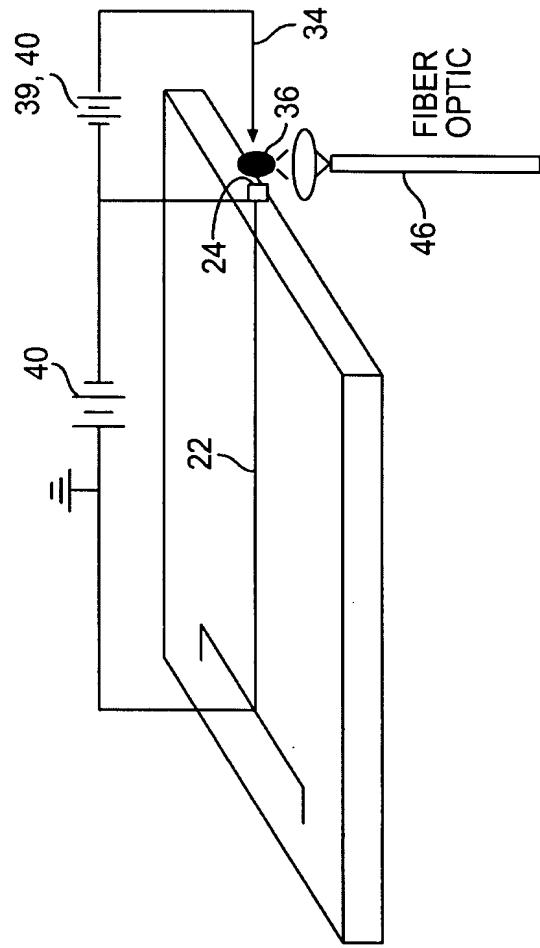


Fig. 1c

REPLACEMENT SHEET

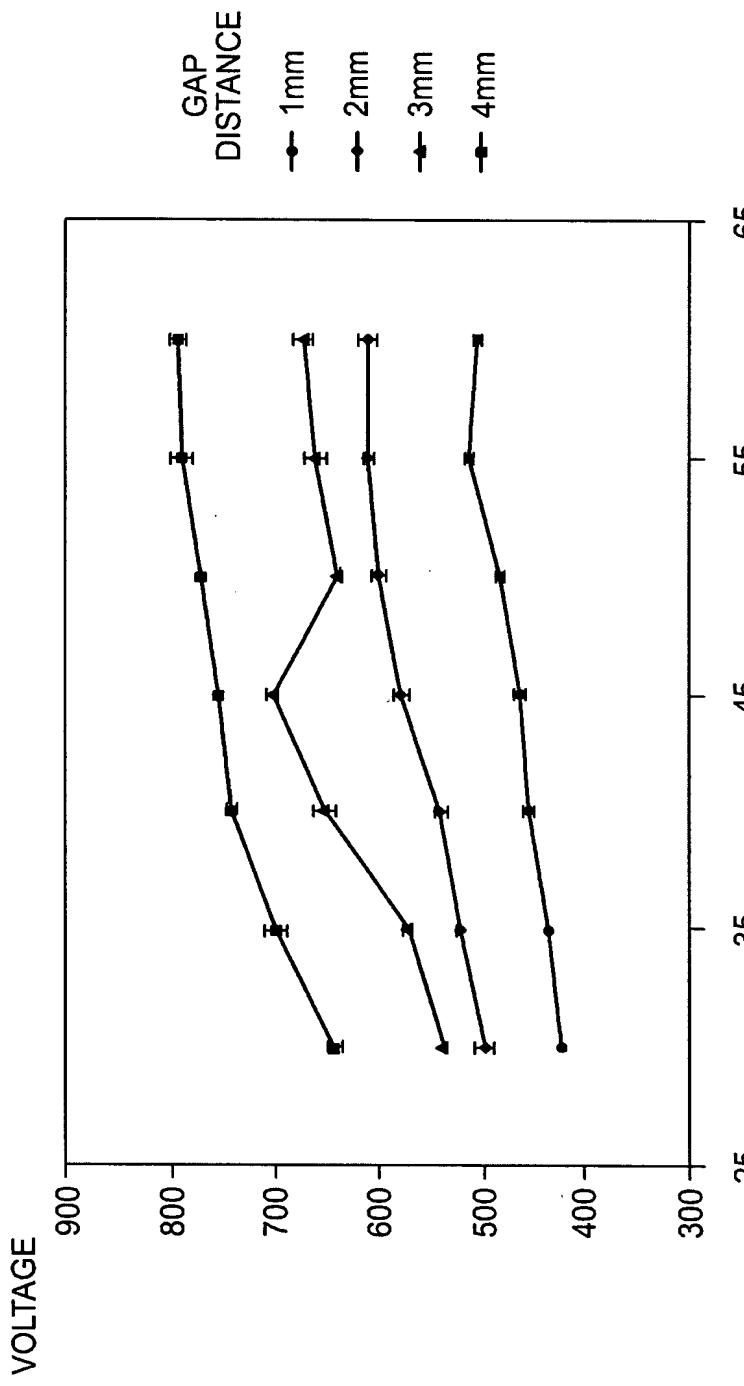


Fig. 2a

REPLACEMENT SHEET

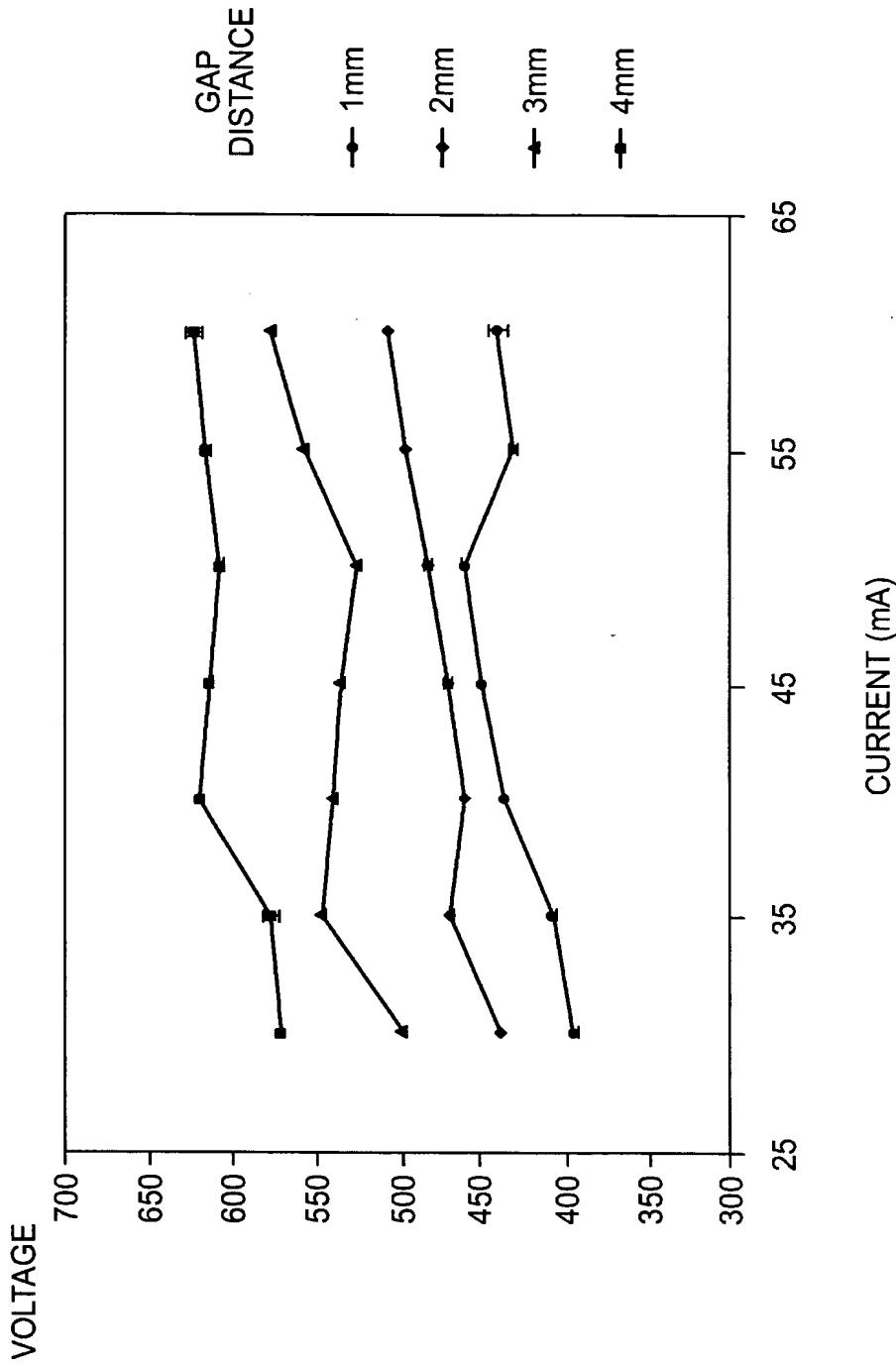


Fig. 2b

REPLACEMENT SHEET

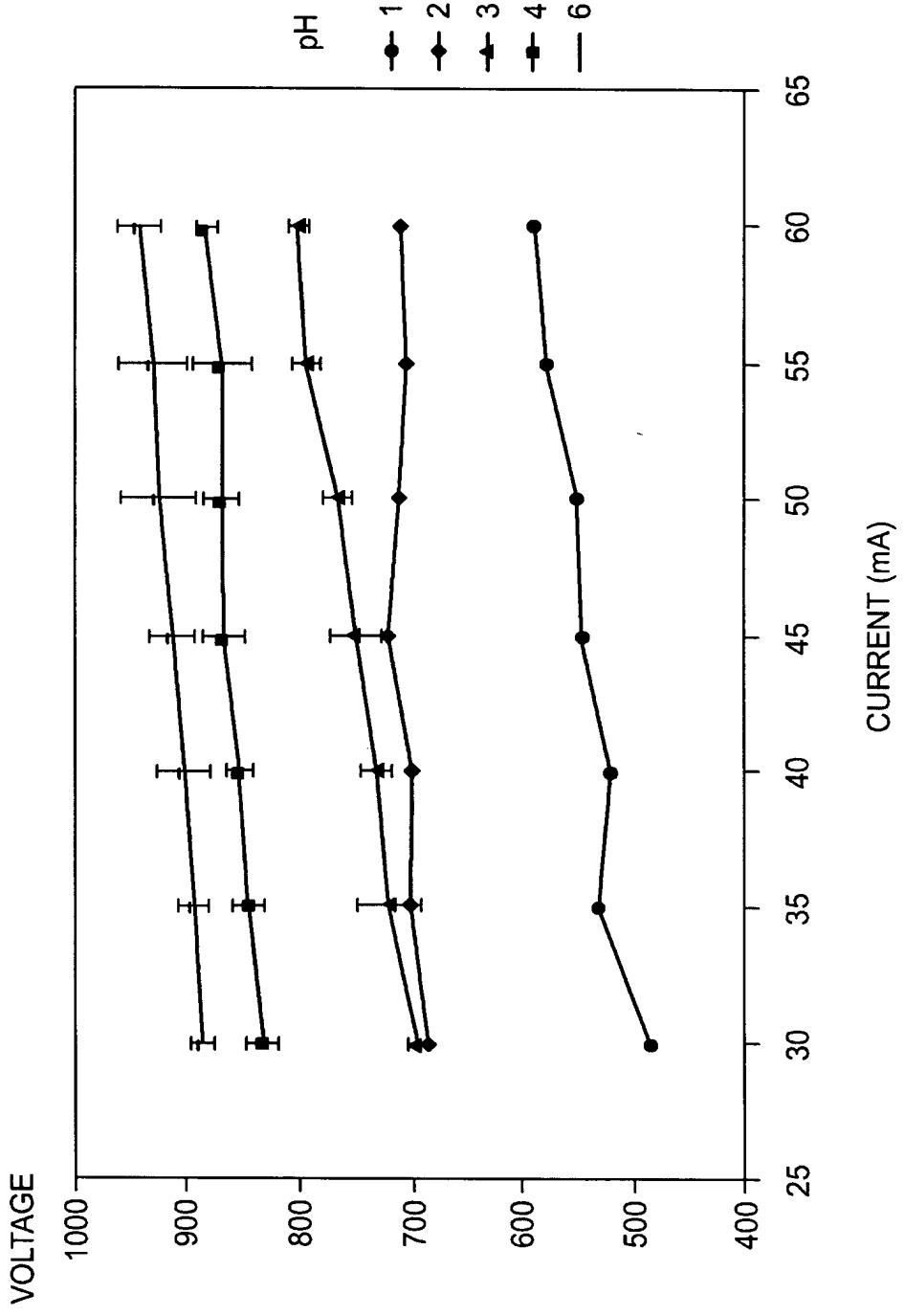


Fig. 3a

REPLACEMENT SHEET

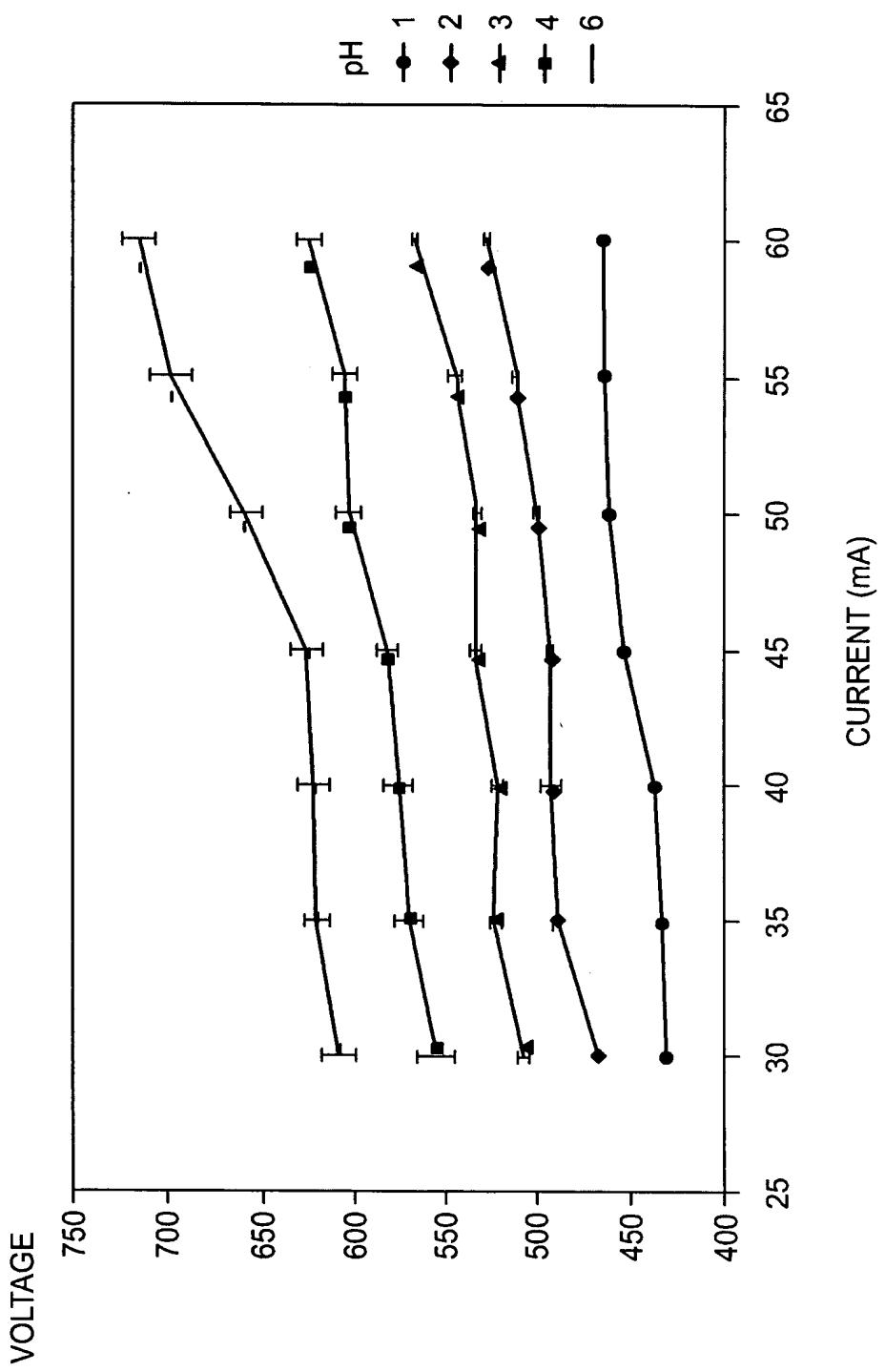


Fig. 3b

REPLACEMENT SHEET

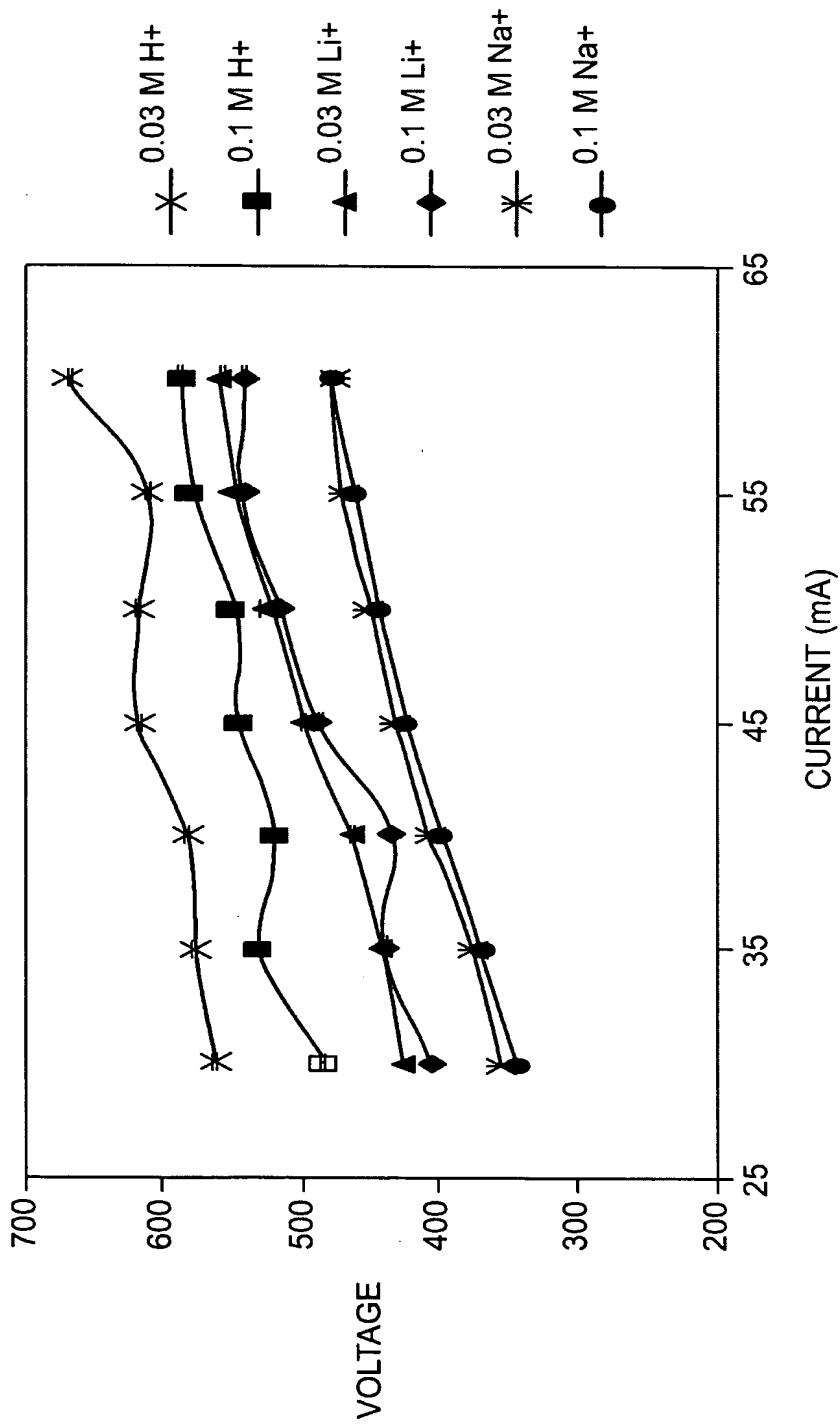


Fig. 4a

REPLACEMENT SHEET

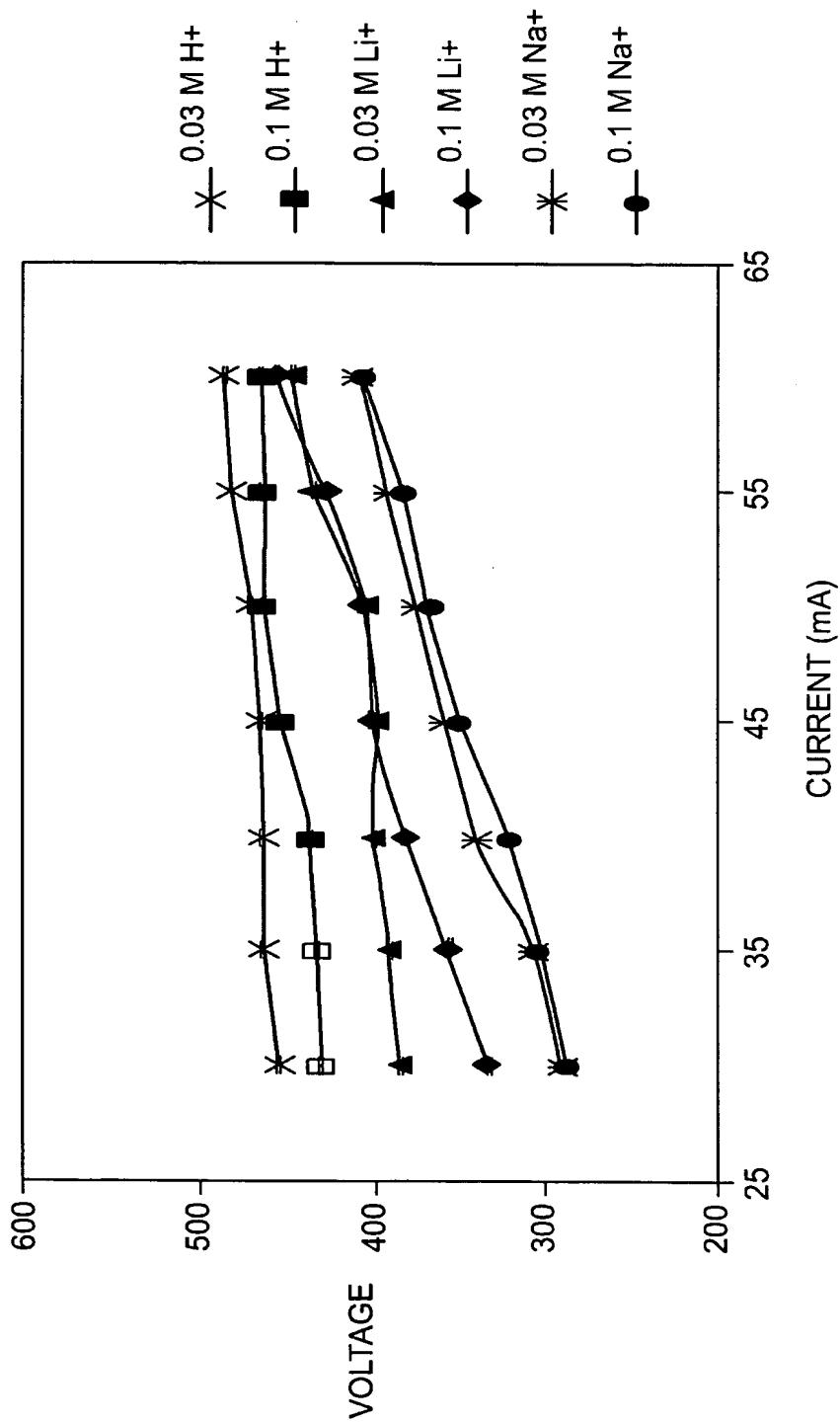


Fig. 4b

REPLACEMENT SHEET

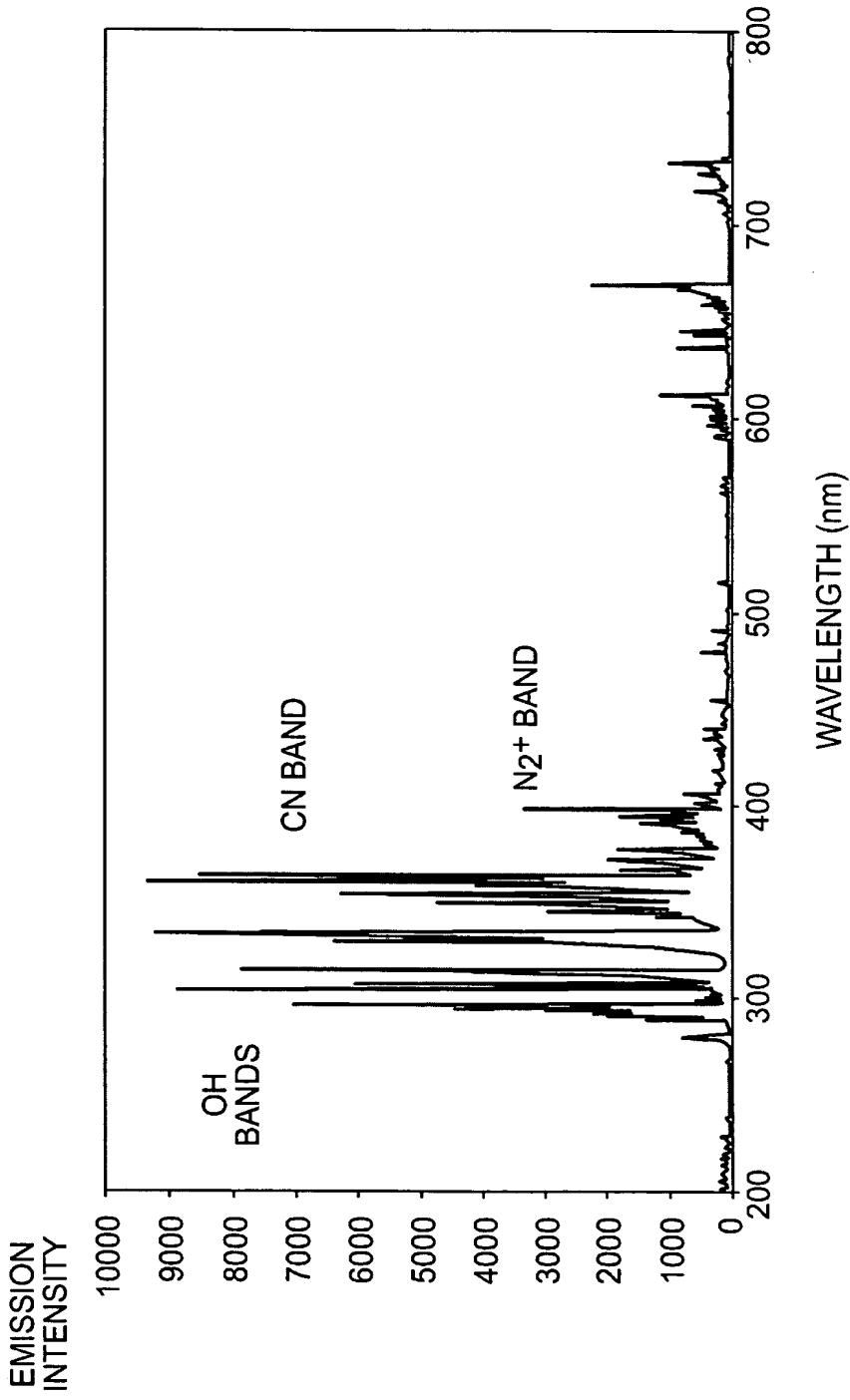


Fig. 5

REPLACEMENT SHEET

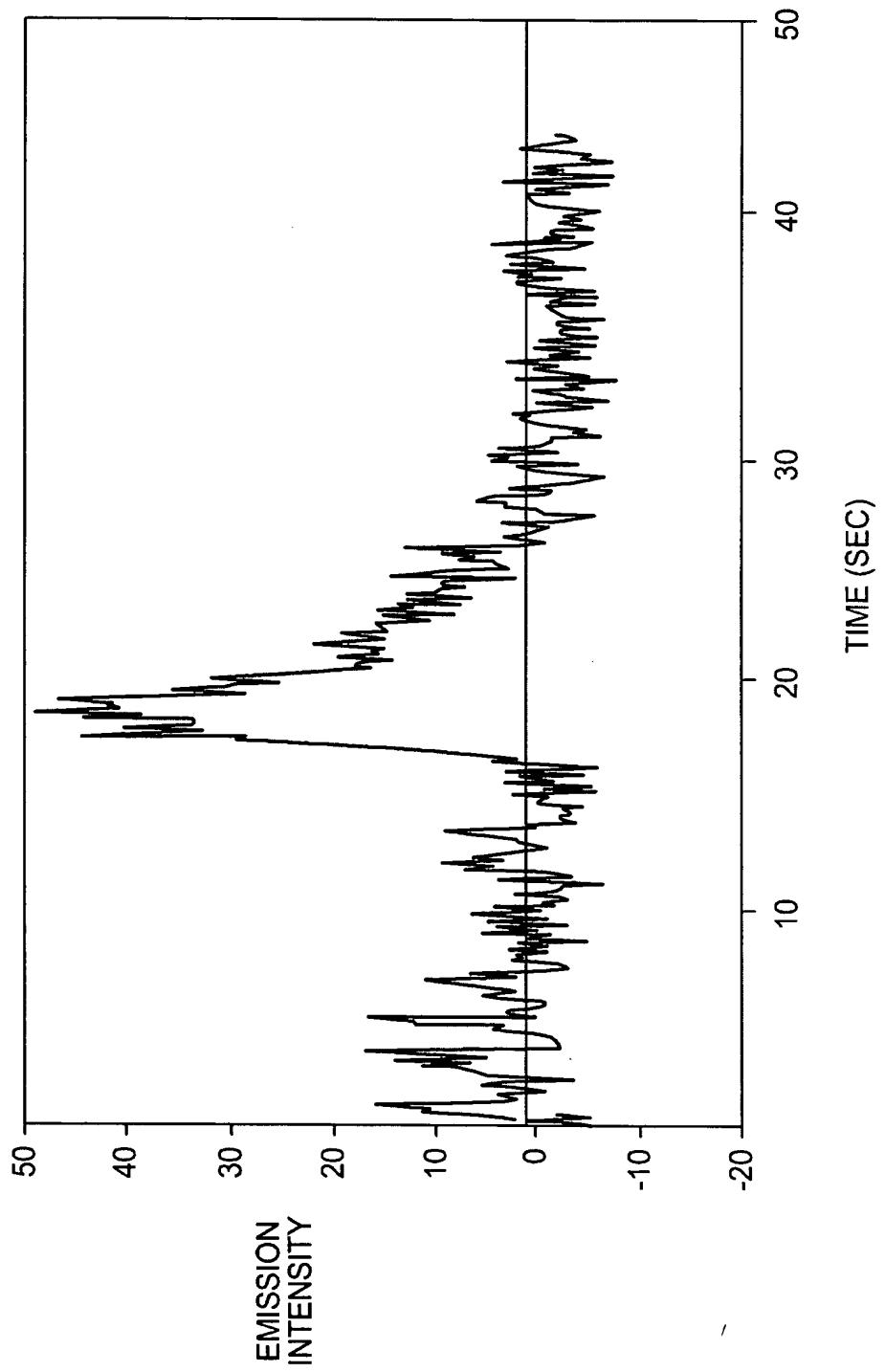


Fig. 6

REPLACEMENT SHEET

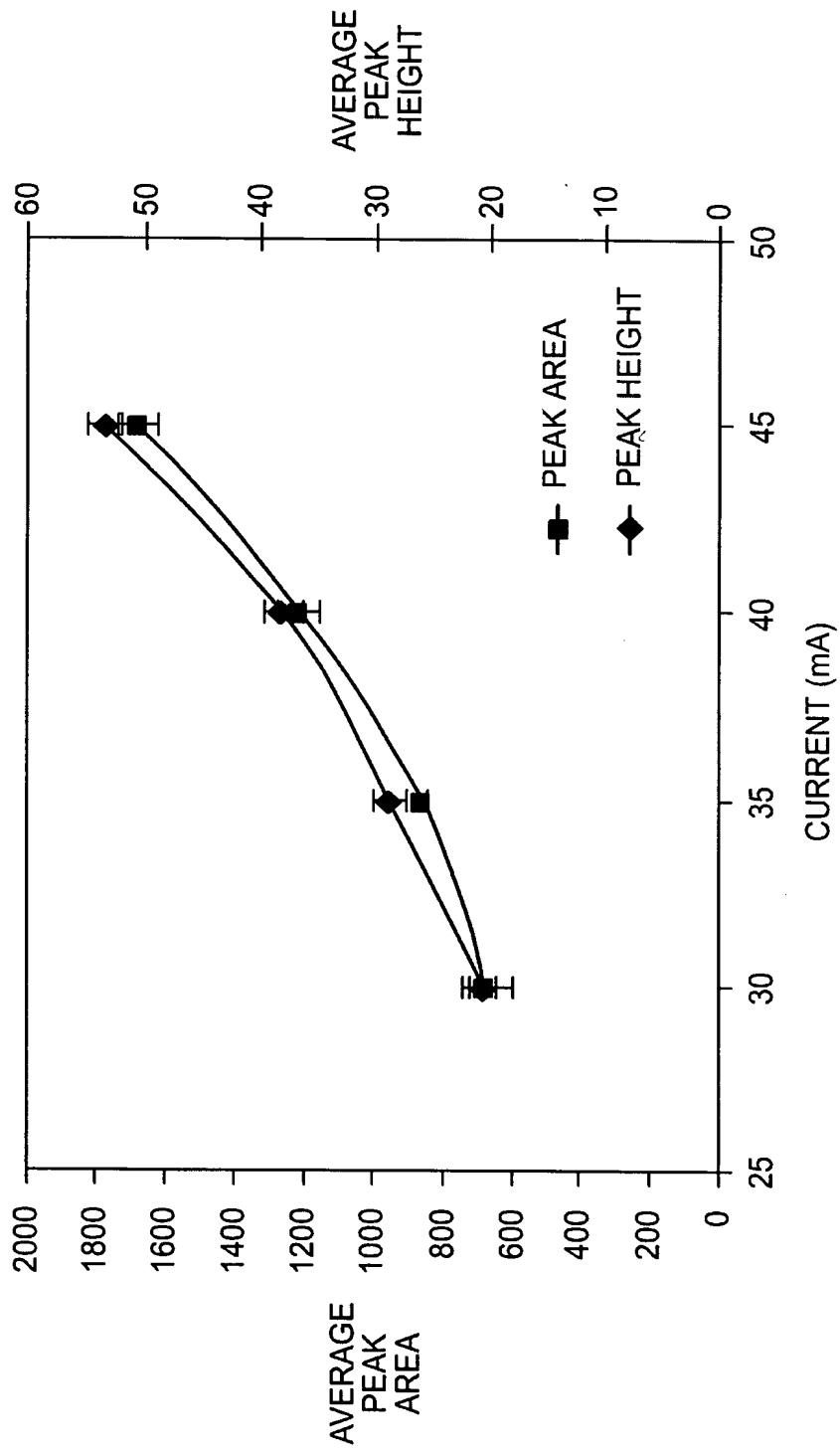


Fig. 7

REPLACEMENT SHEET

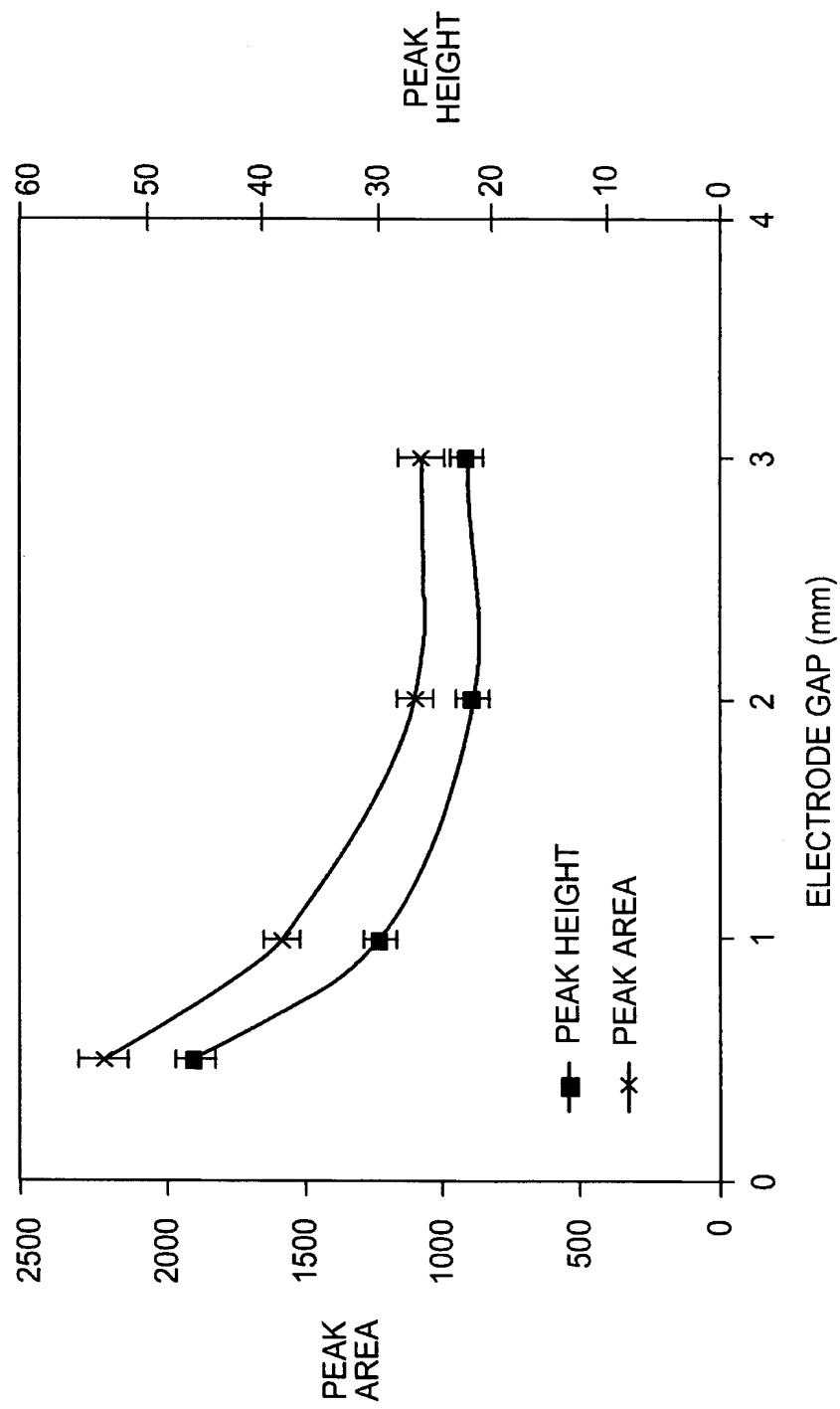


Fig. 8

REPLACEMENT SHEET

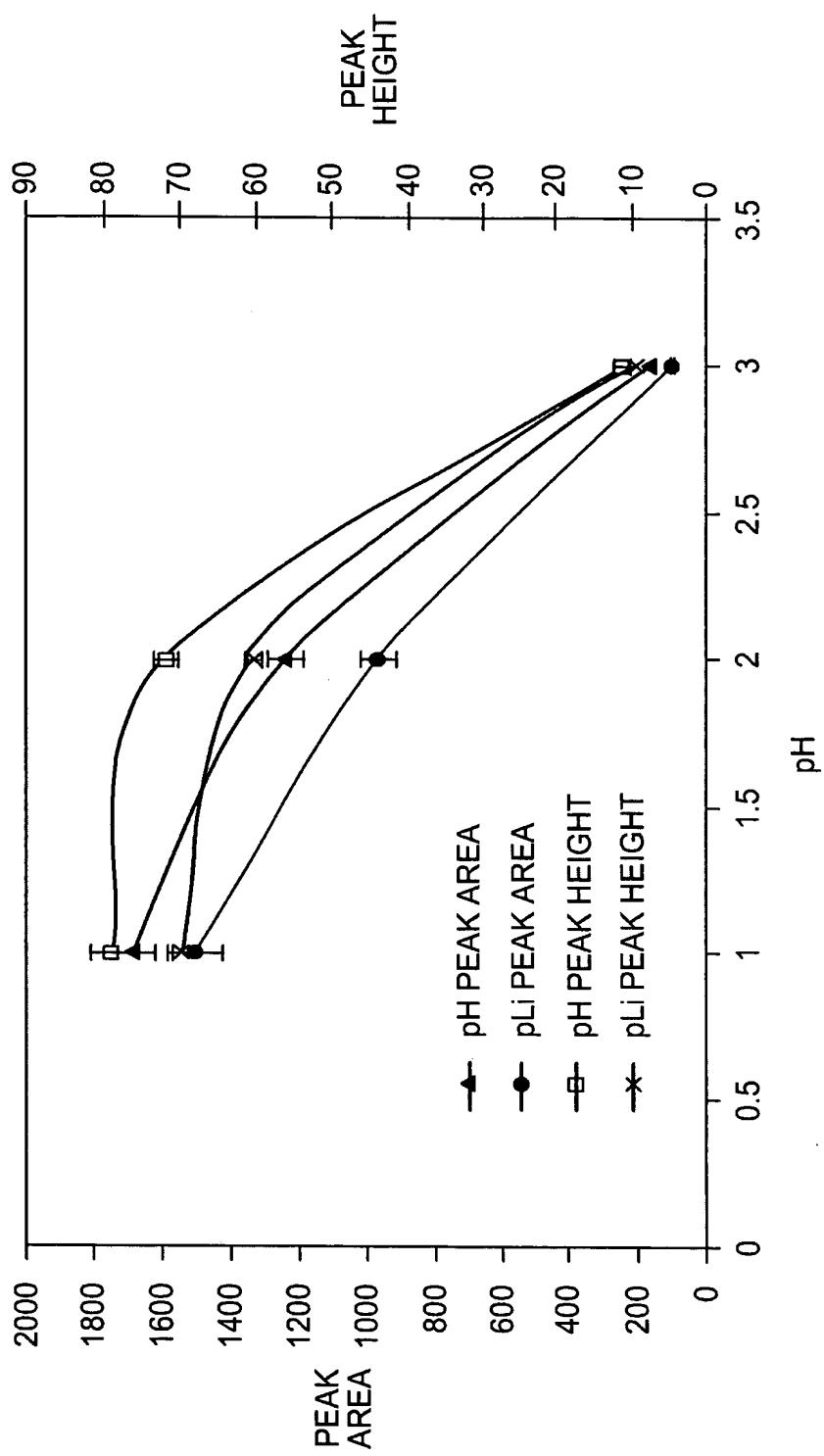


Fig. 9

REPLACEMENT SHEET

ANALYTICAL RESPONSE FUNCTIONS AND LIMITS OF DETECTION FOR THE LS-APGD DEVICE.
SOLUTION FLOW RATE = 1 mL/MIN., ELECTROLYTE pH = 1, INTER ELECTRODE GAP = 1 mm,
INJECTION VOLUME = 5 μ L.

ELEMENT	WAVELENGTH (nm)	PEAK HEIGHT EQN. R^2	PEAK AREA EQN. R^2	LOD ppm (ng)
Na	589.0	Y=0.421x + 42.8 0.9859	Y=15.81x + 978.6 0.9784	12 (60)
Fe	248.3	Y=1.06x - 102.1 0.9365	Y=45.80x - 6649 0.909	12 (60)
Pb	405.8	Y=1.18x - 10.45 0.977	Y=16.16x - 419.7 0.9298	14 (70)

Fig. 10

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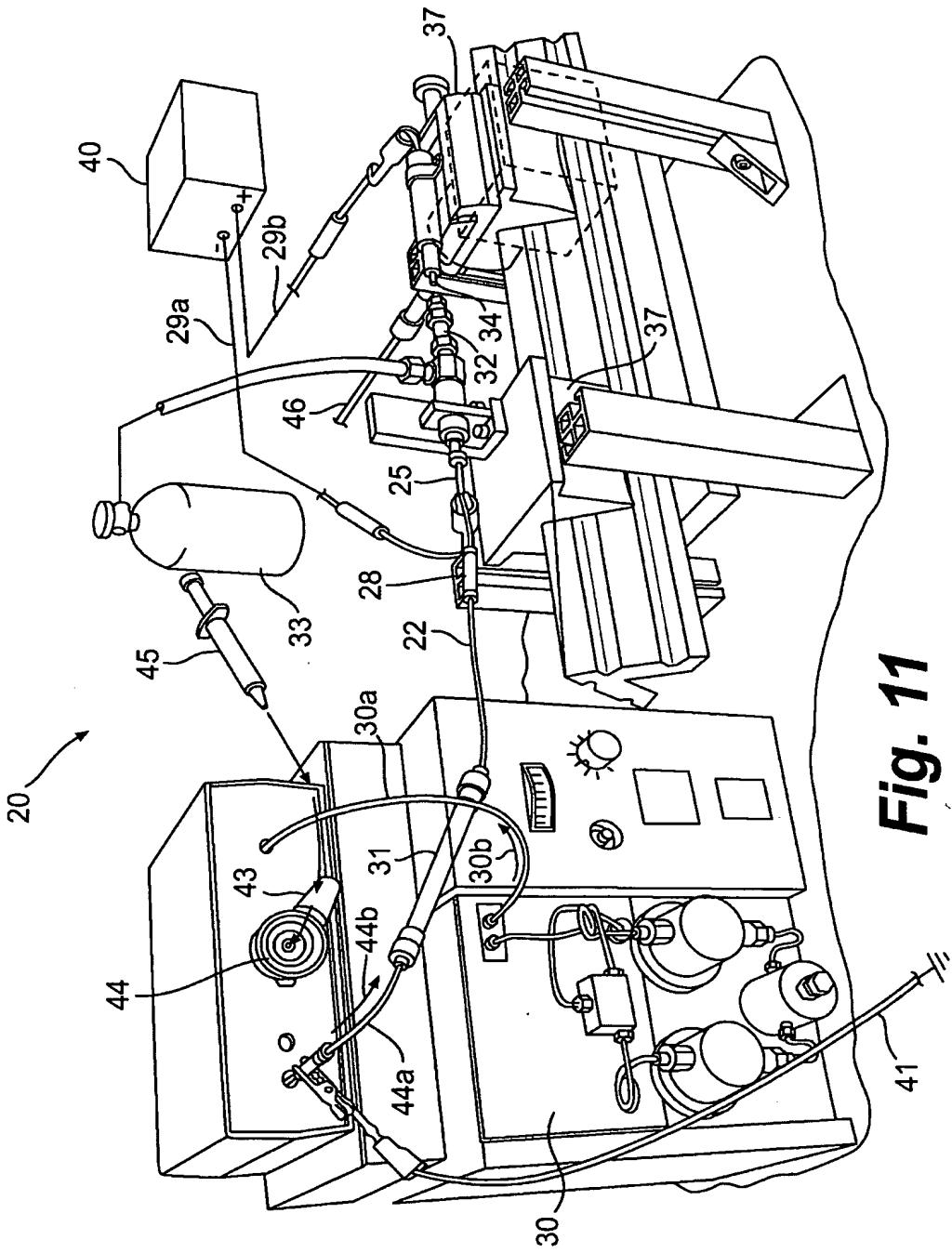


Fig. 11

REPLACEMENT SHEET

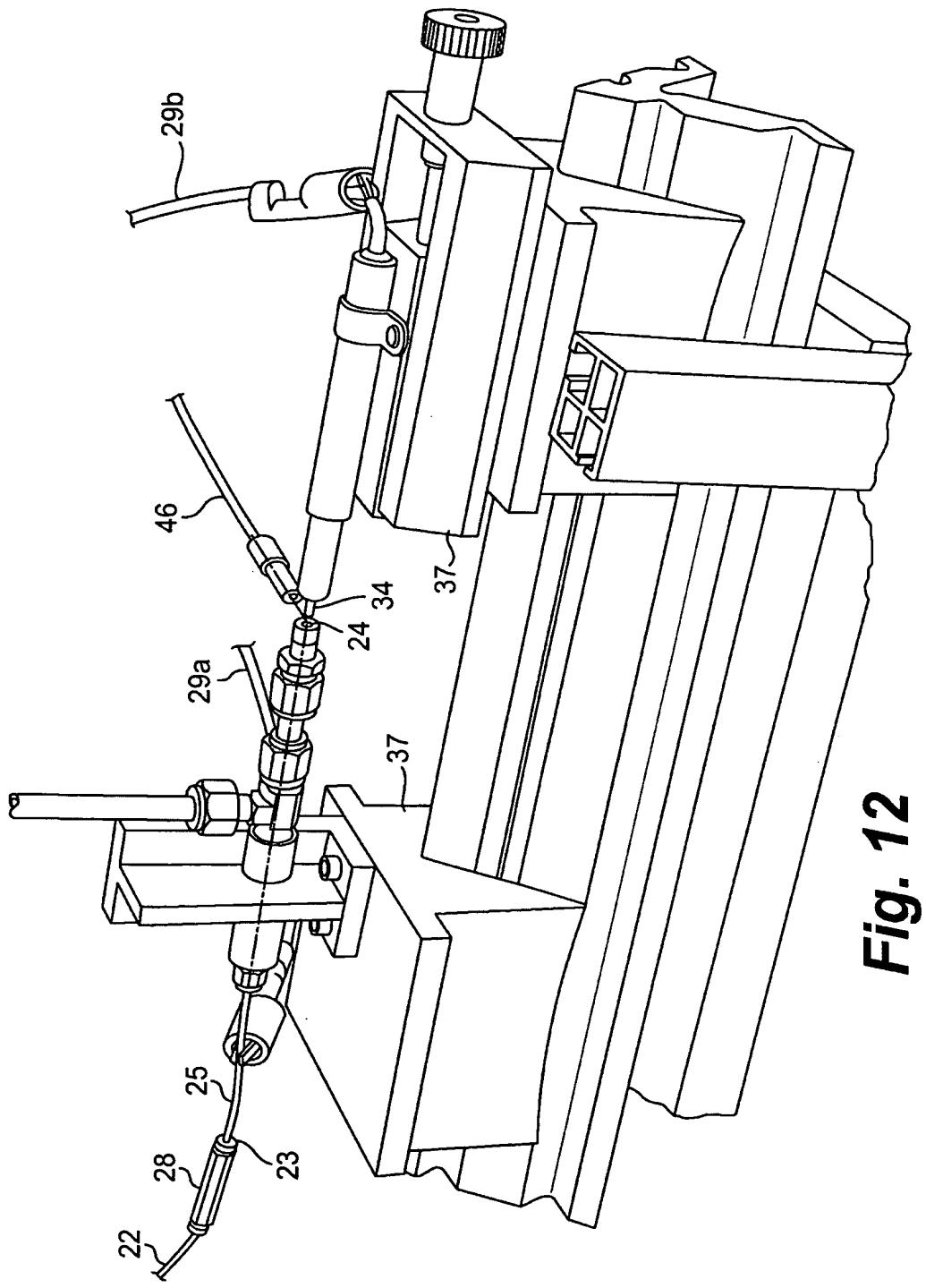


Fig. 12

REPLACEMENT SHEET

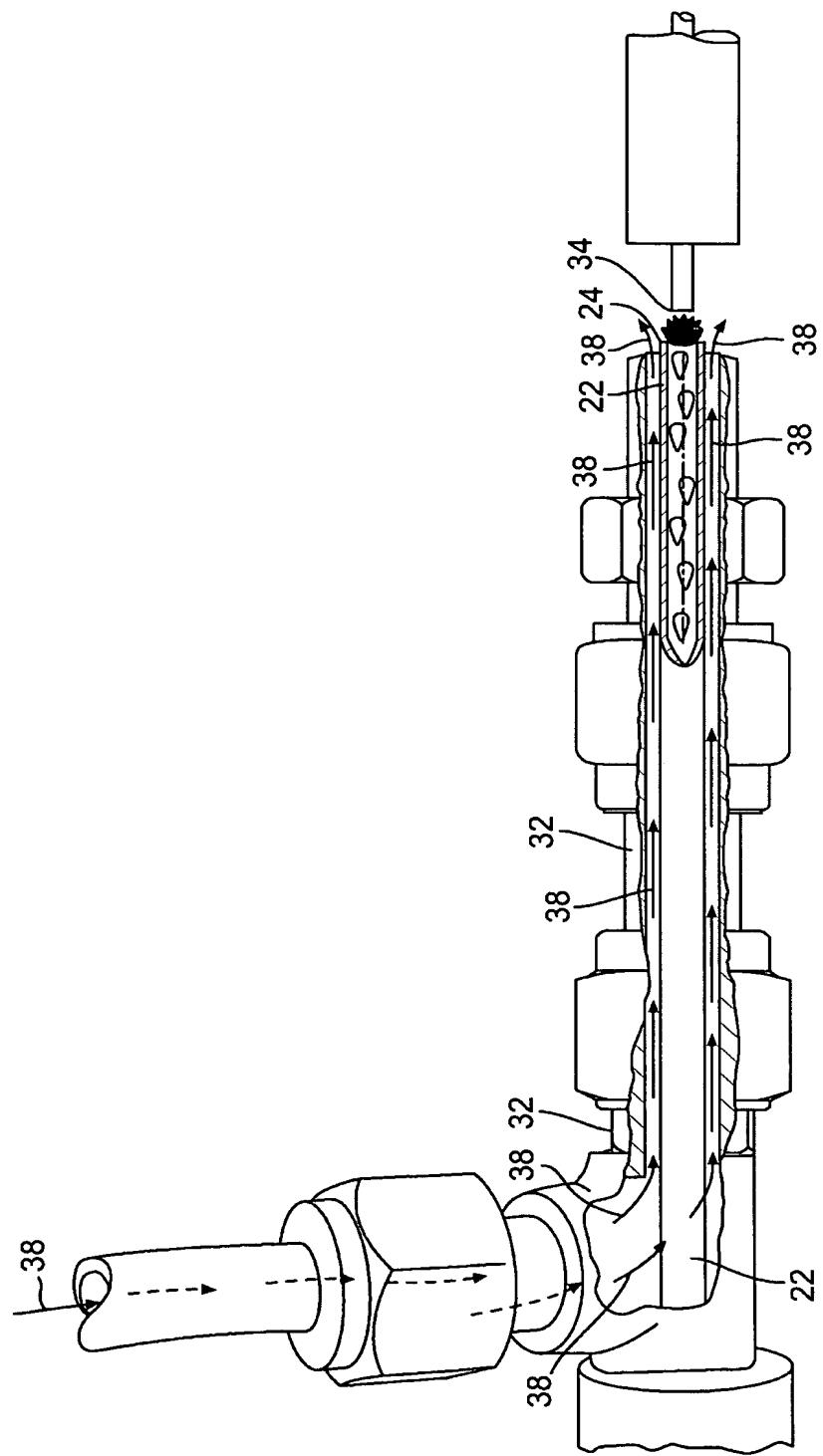


Fig. 13

REPLACEMENT SHEET

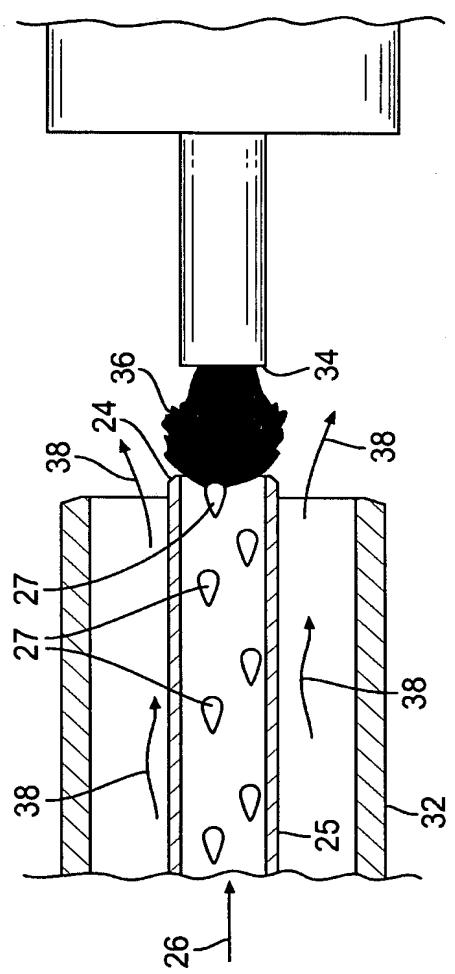


Fig. 14

REPLACEMENT SHEET

Selenoamino Acid Separation

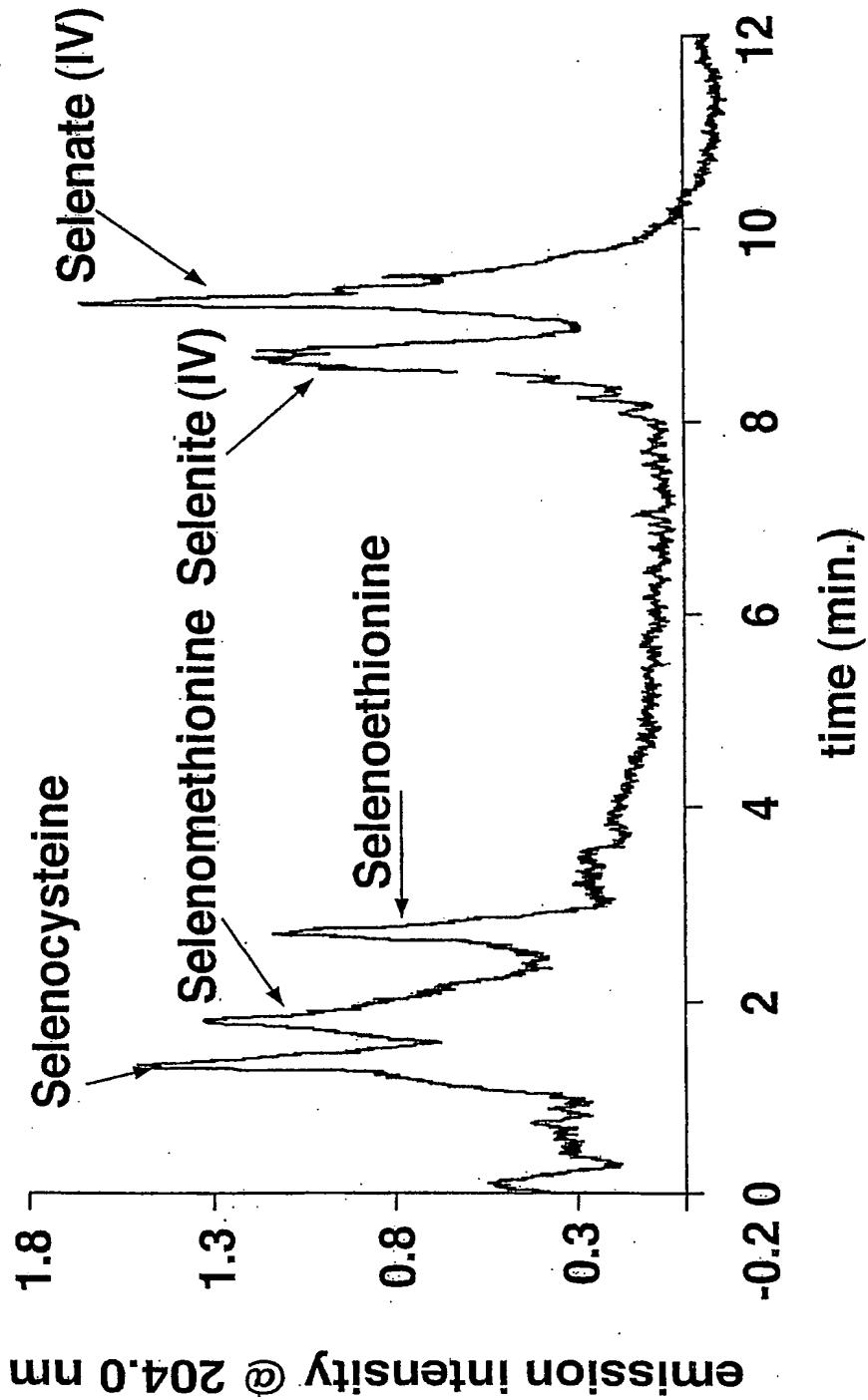


Fig. 15